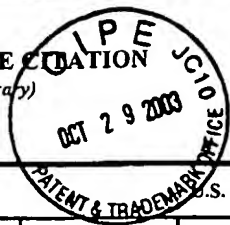


**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)



Docket Number (Optional) <b>300-80100</b>	Application Number <b>10/608,935</b>
Applicant(s) <b>Nicholas Grant Rasmussen et al.</b>	
Filing Date <b>June 27, 2003</b>	Group Art Unit <b>Unknown</b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

<b>2G</b>	J.F. Blinn, "Light Reflection Functions for Simulation of Clouds and Dusty Surfaces", Computer Graphics Volume 16, No. 3, 1982, pps. 21-29.
<b>2G</b>	K. Brodlie and J. Wood, "Recent Advances in Volume Visualization", Computer Graphics Forum 20, 1, 2001, pps. 125-148. (Copy of Submitted Article, pages 1-23.)

EXAMINER <b>L. G. G. G.</b>	DATE CONSIDERED <b>9/5/2006</b>
-----------------------------	---------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

300-80100

Application Number

10/608,935

Applicant(s)

Nicholas Grant Rasmussen et al.

Filing Date

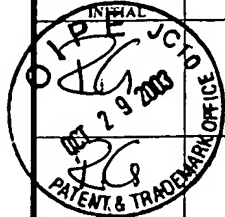
June 27, 2003

Group Art Unit

Unkn wn

\*EXAMINER

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)



M. Desbrun and M.-P. Cani, "Smoothed Particles: A New Paradigm for Animating Highly Deformable Bodies", In Computer Animation and Simulation '96, Proceedings of EG Workshop on Animation and Simulation, Springer-Verlag, R. Boulic and G. Hegron, Eds., 1996, pps. 61-76. Published Under the Name Marie-Paule Gascuel.

Y. Dobashi et al., "A Simple, Efficient Method for Realistic Animation of Clouds", In SIGGRAPH 2000 Conference Proceedings, Annual Conference Series, 2000, pps. 19-28.

D.S. Ebert and R.E. Parent, "Rendering and Animation of Gaseous Phenomena by Combining Fast Volume and Scanline A-Buffer Techniques", In Proceedings of SIGGRAPH 1990, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1990, pps. 19-28.

D. Enright et al., "Animation and Rendering of Complex Water Surfaces", In Proceedings of SIGGRAPH 2001, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 2002, pps. 736-744.

R. Fedkiw et al., "Visual Simulation of Smoke", In Proceedings of SIGGRAPH 2001, ACM Press/ACM SIGGRAPH, E. Fiume, Ed., Computer Graphics Proceedings, Annual Conference Series, ACM, 2001 pps. 15-22.

N. Foster and R. Fedkiw, "Practical Animation of Liquids", In Proceedings of SIGGRAPH 2001, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 2001, pps. 23-30.

N. Foster and D. Metaxas, "Realistic Animation of Liquids", Graphical Models and Image Processing 58, 1996, pps. 471-483. (Paper, pp. 1-24.)

N. Foster and D. Metaxas, "Modeling the Motion of a Hot, Turbulent Gas", In Proceedings of SIGGRAPH 1997, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1997, pps. 181-188. (Paper, pp. 1-9, only first page numbered.)

G.Y. Gardner, "Visual Simulation of Clouds", In Proceedings of SIGGRAPH, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1985, pps. 297-384.

R.A. Gingold and J.J. Monaghan, "Smoothed Particle Hydrodynamics: Theory and Application to Non-Spherical Stars", Mon. Not. R. Astron. Soc 181, 1977, pps. 375-389.

G. Yngve et al., "Animating Explosions", In Proceedings of SIGGRAPH 2000, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 2000, pps. 29-36.

J. Stam, "Stable Fluids", In SIGGRAPH 99 Conference Proceedings, Annual Conference Series, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1999, pps. 121-128.

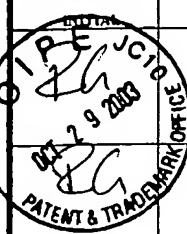
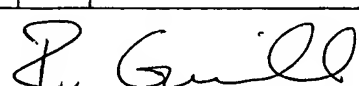
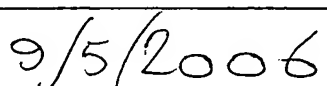
EXAMINER

*[Handwritten signature]*

DATE CONSIDERED

*9/5/2006*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>		Docket Number (Optional) <b>300-80100</b>	Application Number <b>10/608,935</b>
		Applicant(s) <b>Nicholas Grant Rasmussen et al.</b>	
		Filing Date <b>June 27, 2003</b>	Group Art Unit <b>Unknown</b>
*EXAMINER	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	J.T. Kajiya and B.P. Von Herzen, "Ray Tracing Volume Densities", In Proceedings of SIGGRAPH 1984, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference, ACM, 1984, pps. 165-174.		
	A. Lamorlette and N. Foster, "Structural Modeling of Flames for a Production Environment", In Proceedings of SIGGRAPH 2002, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 2002, pps. 729-735.		
	R. Szeliski and D. Tonnesen, "Surface Modeling with Oriented Particle Systems", Computer Graphics, SIGGRAPH Proc., 1992, pps. 185-194.		
	M. Levoy, "Display of Surfaces From Volume Data", IEEE Computer Graphics and Applications 8, 3, 1998, pps. 29-37. (Paper, pp. 1-10.)		
	J. Steinhoff and D. Underhill, "Modification of the Euler Equations for "Vorticity Confinement": Application to the Computation of the Interacting Vortex Rings", Physics of Fluids 6, 8, 1994, pps. 2738-2744.		
	R. Miyazaki et al., "Simulation of Cumuliform Clouds Based on Computational Fluid Dynamics", Proc. Eurographics 2002, Short Presentation, 2002, pps. 405-410.		
	M. Neff and E. Fiume, "A Visual Model for Blast Waves and Fracture", In Proceedings of Graphics Interface 1999, 1999, pps. 193-202. (Paper, pp. 1-10, unnumbered.)		
	D. Nguyen, "Physically Based Modeling and Animation of Fire", In Proceedings of SIGGRAPH 2002, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference, ACM, 2002, pps. 721-728.		
	J. Wejchert and D. Haumann, "Animation Aerodynamics", Computer Graphics, Volume 25, No. 4, 1991, pps. 19-22		
	K. Perlin, "An Image Synthesizer", In Proceedings of SIGGRAPH 1985, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1985, pps. 287-296, Vol. 19, No. 3.		
M.J. Rudolf and J. Raczowski, "Modeling the Motion of Dense Smoke in the Wind Field", Computer Graphics Forum, Volume 19, No. 3, 2000.			
G. Sakas, "Fast Rendering of Arbitrary Distributed Volume Densities", In Proceedings of Eurographics, 1990, pps. 519-530.			
EXAMINER			DATE CONSIDERED 
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

300-80100

Application Number

10/608,935

Applicant(s)

Nicholas Grant Rasmussen et al.

Filing Date

June 27, 2003

Group Art Unit

Unknown

\*EXAMINER

INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)



L. Yaeger and C. Upson, "Combining Physical and Visual Simulation - Creation of the Planet Jupiter for the Film 2010". In Proceedings of SIGGRAPH 1986, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1986, pps. 85-93.

J. Stam and E. Flume, "Turbulent Wind Fields for Gaseous Phenomena", In Proceedings of SIGGRAPH 1993, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1993, pps. 369-376. (Paper, pp. 1-7, unnumbered.)

G. Sakas, "Modeling and Animating Turbulent Gaseous Phenomena Using Spectral Synthesis", The Visual Computer 9, 1993, pps. 200-212.

K. Mueller et al., "Splating Without The Blur", pps. 1-9.

L. Westover, Numerical Design Limited, "Footprint Evaluation For Volume Rendering", Computer Graphics, Vol. 24, Number 4, August 1990, pps. 367-376.

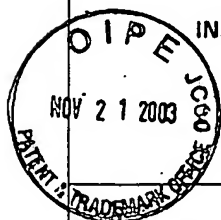
EXAMINER

*E. Gwill*

DATE CONSIDERED

*9/5/2006*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Dock t Number (Opti nal)  
300-80100Application N .  
10/608,935Applicant(s)  
Nich las Grant Rasmuss n t al.Filing Date  
June 27, 2003Group Art Unit  
Unkn wn

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes N

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RG	M.N Gamito, "Two-Dimensional Simulation of Gaseous Phenomena Using Vortex Particles", In Proceedings of the 6 <sup>th</sup> Eurographics Workshop on Computer Animation and Simulation, Springer-Verlag, 1995, pps. 3-15.
RG	S. Hadap and N. Magnenat-Thalmann, "Modeling Dynamic Hair as a Continuum", Computer Graphics Forum, Volume 20, 2001, Number 3. (Paper, pps. 1-10, unnumbered).
RG	W. Lorensen and H. Cline, "Marching Cubes: A High-Resolution 3D Surface Construction Algorithm", Computer Graphics, Volume 21, Number 4, 1987, pps. 163-169.
RG	J.F. O'Brien and J.K. Hodgins, "Graphical Modeling and Animation of Brittle Fracture", In Proceedings of SIGGRAPH 1999, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1999, pps. 137-146.
RG	K. Sims, "Particle Animation and Rendering Using Data Parallel Computation", Computer Graphics Volume 24, Number 4, 1990, pps. 405-413.
RG	J. Tessendorf, "Simulating Ocean Water", In Simulating Nature: Realistic and Interactive Techniques, SIGGRAPH 2002, Course Notes 9, pps. 1-1 thru 7-31.
RG	B. Wyvill et al., "Animating Soft Objects", The Visual Computer V. 2(4), 1986, pps. 235-242.
**	L.D. Landau and E.M. Lifshitz, "Fluid Mechanics", 2 <sup>nd</sup> Edition, Butterworth-Heinemann, Oxford, 1998.

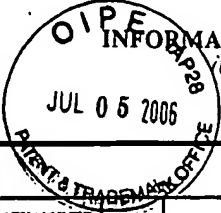
EXAMINER

R. Gmillo

DATE CONSIDERED

9/5/2006

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

 <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p>				Docket Number (Optional) <b>300-80100</b>		Application Number <b>10/608,935</b>		
				Applicant(s) <b>Nicholas Grant Rasmussen, et al.</b>				
				Filing Date <b>June 27, 2003</b>		Group Art Unit <b>2123</b>		
<b>U.S. PATENT DOCUMENTS</b>								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)								
<b>RG</b>		Manuel Noronha Gamito, "Simulation of Turbulent Flow Using Vortex Particles", pps. 1-12 (unnumbered).						
<b>RG</b>		Jos Stam, et al., "Depicting Fire And Other Gaseous Phenomena Using Diffusion Processes", In Proceedings of SIGGRAPH 1995, ACM Press/ACM SIGGRAPH, Computer Graphics Proceedings, Annual Conference Series, ACM, 1995, pps. 129-136. (unnumbered).						
EXAMINER <b>R. GUILLO</b>				DATE CONSIDERED <b>8/5/2006</b>				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				Docket Number (Optional) <b>300-80100</b>		Application Number <b>10/608,935</b>	
				Applicant(s) <b>Nicholas Grant Rasmussen, et al.</b>			
				Filing Date <b>June 27, 2003</b>		Group Art Unit <b>2123</b>	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)
<div style="font-size: 2em; font-family: cursive;">RG</div>		<del>*SIGGRAPH 2002 COURSE 9, pp. 1-1 thru 7-31, with attention to J. Tessendorf "Simulating Ocean Water," pp. 3-1 thru 3-19 plus 44 page chart presentation "Simulating Ocean Surfaces" (pages not numbered).</del>	

EXAMINER <div style="font-family: cursive; font-size: 1.5em;">R. G. ...</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.5em;">9/5/2006</div>
---	---

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.